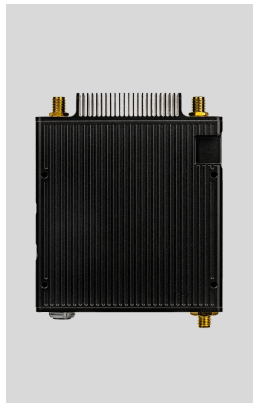


MESHCONNECT

Rugged IP Networking Node



MeshConnect redefines connectivity for modern storytelling, and is your ultimate solution for on-the-go connectivity. Engineered as a rugged, IP networking node, it creates a self-forming, self-healing Mobile Ad-hoc Network (MANET) that keeps your production moving, no matter where the action takes you.

Designed for live events, sports, reality, film, and entertainment, MeshConnect delivers reliably in even the toughest conditions. Its durable design and intuitive management tools make deployment effortless, so your team can focus on capturing the moment, not configuring technology.

With dual-band operation and a powerful Web-based GUI for seamless control and monitoring, MeshConnect brings IP control to your broadcast workflow, empowering you to connect, create, and share on the move.

Key Features

Frequency Range: 1.35–1.44 GHz or 2.20–2.50 GHz, with dual-band capability

Data Rate: Up to 100 Mbps (adaptive)

Latency: Average of 7ms

Networking: Supports self-forming and self-healing MANET capabilities for up to 500+ nodes in a single mesh network

Control: A Web-based GUI is available for control

Connectivity: Multiple bridged Ethernet ports

Boot Time: Under 60 seconds from cold start to a network-ready state

Frequency shifting with license

Typical Applications

Live events

Live sports

Live entertainment

Filming and film production

MeshConnect: Technical Specification

RF & Networking	
Frequency Band	1.35 - 1.44 GHz* * Can be licensed for dual bands 2.2 - 2.5 GHz*
Transmit Power	MeshConnect: 2 x 0.5 W MeshConnect Pro: 2 x 2 W
Frequency Selection	Manual selection
Modulation Modes	Adaptive <ul style="list-style-type: none"> • BPSK • QPSK • 16QAM • 64QAM • 128QAM • 256QAM
Data Rate	MeshConnect: up to 12 Mbps MeshConnect Pro: up to 100 Mbps
Bandwidth	<ul style="list-style-type: none"> • 1.25 MHz* * Pro variant only with license • 2.5 MHz* ** Pro variant only • 5 MHz** • 10 MHz • 20 MHz
Nodes	Supports up to 500+ nodes in a single mesh system
Wi-Fi	Features 2 & 5 GHz Wi-Fi Access Point (AP/Client)
Intercom	
Headset	Compatible with standard TRRS headsets (non-Waterproof variants only)
PTT	Push-to-Talk Trigger (non-Waterproof variants only)
User Interface	
User Interface	<ul style="list-style-type: none"> • Web GUI • LED indication
Physical Connectors	
Connectors	<ul style="list-style-type: none"> • 2x RF Input / Output Connector: 50 Ω SMA (F) • WiFi AP/Client Antenna Connector: 50 Ω SMA (RP) • 2x Ethernet Connector: 1x RJ45 (10/100/1000 Mbps) + 1x RJ45 (10/100Mbps) • Power Connector: 2-pin Lemo socket • Intercom Connector: 4-pole 3.5mm jack** • PTT Trigger Connector: 3-pole 2.5mm jack** • 2x USB Connector: USB Type C* * Future implementation • HDMI Connector: Micro HDMI* ** Non-Waterproof variants only
Flexibility & Power Supply	
Voltage	9-32V DC
Power Consumption	13W max
Physical & Environmental	
Size & Weight	Non-Waterproof variant: <ul style="list-style-type: none"> • Size: 82 (W) x 95.5 (D) x 25 (H) mm (excluding connectors) • Weight: 263g Waterproof variant: <ul style="list-style-type: none"> • Size: 90 (W) x 111 (D) x 30 (H) mm (excluding connectors) • Weight: 432g
Environmental	Operating temperature: -20°C to 50°C Storage temperature: -40°C to +80°C
Ingress Protection:	Non-Waterproof variant: IP54 Waterproof variant: IP64
Humidity:	0-95% non-condensing
Compliance:	FCC, CE, IC and RoHS compliance

Notes:

Some features are available via optional licenses

Not all interface options are concurrently available

We reserve the right to change specifications at any time without prior notice

MeshConnect: Hardware & License Options

Hardware Options

MESH-ASSY-7001	MeshConnect 1.35-1.44GHz 0.5mW 12Mbps
MESH-ASSY-7002	MeshConnect 2.2-2.5GHz 0.5mW 12Mbps
MESH-ASSY-7003	MeshConnect Pro 1.35-1.44GHz 2W 100Mbps
MESH-ASSY-7004	MeshConnect Pro 2.2-2.5GHz 2W 100Mbps
MESH-ASSY-7101	MeshConnect Waterproof 1.35-1.44GHz 0.5W 12Mbps
MESH-ASSY-7102	MeshConnect Waterproof 2.2-2.5GHz 0.5W 12Mbps
MESH-ASSY-7103	MeshConnect Pro Waterproof 1.35-1.44GHz 2W 100Mbps
MESH-ASSY-7104	MeshConnect Pro Waterproof 2.2-2.5GHz 2W 100Mbps

License Options

MESH-LICE-0001	MeshConnect License Dual Band Frequency
MESH-LICE-0002	MeshConnect License Frequency Shifting
MESH-LICE-0003	MeshConnect Pro License Narrow Bandwidth

Hardware Variants

	MeshConnect MESH-ASSY-7001 MESH-ASSY-7002	MeshConnect Pro MESH-ASSY-7003 MESH-ASSY-7004	MeshConnect Waterproof MESH-ASSY-7101 MESH-ASSY-7102	MeshConnect Pro Waterproof MESH-ASSY-7103 MESH-ASSY-7104
Up to 12 Mbps throughput	✓	✓	✓	✓
Up to 100 Mbps throughput		✓		✓
1.25 & 2.5 MHz Bandwidth*		✓		✓
5 MHz Bandwidth		✓		✓
10 & 20 MHz Bandwidth	✓	✓	✓	✓
Output Power 0.5W	✓	✓	✓	✓
Output Power 2W		✓		✓
Intercom/Tally	✓	✓		
Dual Band*	✓	✓	✓	✓
Frequency Shifting*	✓	✓	✓	✓
IP54 Rated	✓	✓	✓	✓
IP64 Rated			✓	✓

* Requires license

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